

Title (en)
FILTER USED IN THE PROVISION OF SUBSTANTIALLY GERM-FREE WATER

Title (de)
FILTER ZUR GEWINNUNG VON IM WESENTLICHEN KEIMFREIEN WASSER

Title (fr)
FILTRE D'ALIMENTATION D'EAU ESSENTIELLEMENT EXEMPTÉ DE GERMES

Publication
EP 1370345 A1 20031217 (DE)

Application
EP 02716841 A 20020322

Priority
• DE 10115633 A 20010323
• EP 0203220 W 20020322

Abstract (en)
[origin: EP1747811A1] A water filter has a housing with an inlet (12) and an outlet (13) separated by a barrier (17) which is bridged by numerous porous U-shaped hollow fibres (16). The hollow fibre outer surface is exposed to incoming water which migrates through pores to the hollow core to emerge on the other side of the barrier (17). An independent claim is also included for a commensurate process in which impurities e.g. legionnaire bacteria remain trapped on the filter inlet side. The filter is fabricated as a cartridge with a long-life biocide lining and forms part of a hot water bathroom shower. The filter housing holds pref. 50-500 ml of water, and has a throughput of pref. 500-3000 l/hr. The flexible fibre pore size is pref. 0.05 - 0.2 m. The fibre inner diameter is pref. 50-150 m. Each fibre is pref. 30-100 cm in length with total fibre external surface area of pref. 0.05-1.5 m. The fibres are made of pref. polyvinyl fluoride and/or polyether-sulphon. The cartridge holds pref. 30-60 hollow fibres within an elongated housing. The filter cartridge is preceded by a coarse pre-filter.

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IPC 8 full level
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CPC (source: EP US)
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Cited by
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EP 1747811 A1 20070131; **EP 1747811 B1 20090819**; AT E340632 T1 20061015; AT E439904 T1 20090915; DE 10115633 A1 20020926; DE 50208254 D1 20061109; DE 50213787 D1 20091001; EP 1370345 A1 20031217; EP 1370345 B1 20060927; WO 02076589 A1 20021003

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